

Internet Printing Protocol Meeting Minutes

July 7, 2022

Meeting was called to order at 3pm EDT on July 7.

Attendees

Smith Kennedy (HP)
Ira McDonald (High North)
Michael Rhines (Qualcomm)
Anthony Suarez (Kyocera)
Michael Sweet (Lakeside Robotics)
Uli Wehner (Ricoh)
Steven Young (Canon)

Agenda Items

1. Antitrust and IP policies, minute taker
 - https://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf
 - https://www.pwg.org/chair/membership_docs/pwg-antitrust-policy.pdf
 - Antitrust and IP policies accepted, Mike taking minutes
2. Approve IPP minutes from previous meetings
 - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20220602.pdf>
 - Approved as posted
3. Status/Review of various IPP mailing list notes
 - <https://www.pwg.org/archives/ipp/2022/021158.html>
 - IPP Finishings 3.0 "laminating-type" value 'water-resistant' (Mike)
 - <https://www.pwg.org/archives/ipp/2022/021161.html>
 - Fwd: [saag] openpgp draft in WGLC, reviews welcome...
 - <https://www.pwg.org/archives/ipp/2022/021156.htm>
 - PWG 5100.7 Issue #113 on "media-size" - discuss (Smith)
 - Update IANA registry in advance of errata resolution for Issue #113?
 - Syntax of "media-size" and lower bound of range ('0' or '1')?
 - Action: Mike to update IANA IPP registry for media-size syntax and range of values
 - Action: Smith to update PWG 5100.7 errata to note 1:MAX range of values
4. Status of AMSC and ISO liaisons w/ PWG (Paul)
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220404.htm>
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220502.htm>
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220627.htm>
 - See PWG Steering Committee minutes from 04/04/22, 05/02/22, 06/27/22
5. Status of PWG and IPP WG Formal Approvals and Last Calls (All)

- IPP Finishings v3.0 (Smith)
 - <https://ftp.pwg.org/pub/pwg/candidates/cs-ippfinishings30-20220527-5100.1.pdf>
 - PWG Formal Approval succeeded
 - Candidate Standard version posted - but never announced?
 - Also, posted date is incorrect (Formal Approval ended 27 May 2022)
 - Action: Mike to post announcement for approved IPP Finishings 3.0 document
- IPP Everywhere Printer Self-Certification Tools v1.1 Update 4 (Mike)
 - <https://www.pwg.org/archives/ipp/2022/021172.html>
 - <https://www.pwg.org/archives/ipp/2022/021175.html>
 - IPP WG Last Call started 05/27/22 and is still open
 - Schedule - IPP WG approval in Q3 2022
 - HP has found a timeout issue with the current Print-Job (document) tests
 - Mike needs to turn the crank again with a larger timeout to give these printers time to complete a print job
 - Waiting on updated PWG code signing certificate
- 6. IPP Production Printing Ext v2.0 (Mike)
 - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippppx20-20211020-rev.pdf>
 - <https://www.pwg.org/archives/ipp/2022/021170.html>
 - Prototype draft - for a Candidate Standard
 - PWG status at PWG Virtual F2F on 8 February 2022
 - Report on prototyping in ippsample
 - Schedule - Stable draft in Q3/Q4 2022
 - "imposition-template" vs. "number-up"
 - "imposition-template" is essentially a superset of "number-up"
 - Mike: ippsample ignores number-up if imposition-template is specified
 - Ira: Should say something about this
 - Mike: Not normative, but maybe a note?
 - Implementations might not support "imposition-template" and "number-up" at the same time
 - "imposition-template" vs. "page-ranges"
 - Possible to use multiple "pages-ranges" values, but Client/User needs special knowledge to do it right
 - Just add note about this interaction and that booklet makes this more complicated
 - Uli: Complicated, applications are better suited to doing the layout/imposition anyways for a case where you'd have the client print a subset
 - "cover-back", "cover-front", "insert-sheets"
 - No known public implementations
 - Want to deprecate these, recommend using "overrides" instead
 - Consensus: OK to deprecation
 - Add note to use overrides and force-front-side instead

- Mike: Just have to finish "separator-sheets" for prototype to be complete
- Next version will be stable with changes as agreed
- 7. OAuth2 Discussion (Smith)
 - <https://ftp.pwg.org/pub/pwg/ipp/slides/OAuth%202.0%20Update%20Recommendations%20For%20PWG%205199.10-2019%202022-07-06.pdf>
 - <https://ftp.pwg.org/pub/pwg/ipp/wd/ipp-authentication-6-http-oauth2-annotated.pdf>
 - New OAuth RFCs published since 5199.10 was published in 2019, need an update
 - Key goals:
 - Define best practices/guidance
 - Good Interoperability
 - Prototype end-to-end
 - Problems:
 - Discovery: "oauth-authorization-server-uri" and well-known URIs for getting metadata (RFC 8414 and OpenID/Connect)
 - Resource identifiers for individual services/functions
 - Fix terminology to match OAuth RFCs
 - Enhancements:
 - Add RFC 8693 token exchange support
 - Define resource identifiers - Token Exchange Request vs. printer-uuid vs. device identifier vs. other (e.g. "oauth-resource" attribute from Printer?)
 - Use Authorization Code with PKCE
 - Consider recommending some OIDC conventions even if OIDC isn't used (e.g. use JWTs rather than opaque tokens)
 - Mike Rhines:
 - Mopria has a cloud print profile in development using OAuth 2.0/ PWG 5199.10
 - Talk more about OAuth2 at next concall, focus on determining topics and additional material

Next Steps / Open Actions

- Next conference call on August 4, 2022 at 3pm
- PWG F2F meetings August 16-18, 2022
- Action: Mike to post announcement for approved IPP Finishings 3.0 document
- Action: Mike to update IANA IPP registry for media-size syntax and range of values
- Action: Smith to update PWG 5100.7 errata to note 1:MAX range of values
- Action: Mike to post RFC for laminating-type value 'water-resistant' to IPP list (DONE)
- Action: Mike to put together a proposed UI for new self-cert tools (PENDING)
- Action: Mike and Smith to get new code signing cert for Windows (DONE)